

NVR Solution with NAS Storage Option

The Wavestore OPAL is a very compact video recording solution for mobile applications designed to record network (IP and megapixel) cameras

Designed for SOHO and rapid deployment applications the Wavestore OPAL is an affordable and reliable network surveillance solution for remote monitoring and recording of IP & megapixel cameras.

OPAL supports up to 16 channels of H.264, MxPEG, MPEG-4 or M-JPEG recording, and includes one SATA-2 hard disk for long-term recording.

OPAL is a complete standalone NVR (Network Video Recorder) design that is easy to install and set up, able to record video images from various IP and Megapixel cameras using different protocols simultaneously, and supported with real-time monitoring using the web.

The Wavestore remote client software enables you to monitor multiple video recorders securely and copy selected video images simply and easily.

The Wavestore Opal is a compact design that is easily installed and with a low power consumption of typically 60 Watts means it is an ideal network surveillance solution for monitoring applications in homes, remote sites, schools, offices, shops and car parks.



- Rugged and reliable Linux design provides an ultra stable and reliable recording solution
- Real-time monitoring and recording of a wide range of network cameras (up to 16 channels)
- High quality recordings in H.264, MPEG-4, MxPEG and M-JPEG modes simultaneously
- Wide range of recording features supported (camera dependent), including PTZ control
- Multiple Wavestore recorders can be networked to monitor many cameras over LAN or WAN
- Very fast data search by date & time, or variable speed slider (forward and reverse)
- Supports one internal 3.5" SATA-2 hard disk (Also supports external storage using iSCSI interface)
- Simple to install and operate with embedded camera protocols.
- Uncomplicated camera licensing system, easily ungradable through 4, 9, 16 and 32 input options
- Digital zoom supported in monitoring and playback modes using a wheeled mouse (Virtual PTZ)
- Simple drag and drop function to create your unique multiple display preferences
- Multiple users enabled with unique authority profile (5 users is the default)
- Powerful detailed event and system logs securely maintained
- Automatic system re-start when power resumes after power loss
- Simple video backup for easy recording of data to CD, DVD or USB



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Wavestore OPAL

The complete network recording solution



System specifications

Capability	Record, display and control network (IP and Megapixel) cameras (Note 1)
Video protocols	M-JPEG, MxPEG, MPEG-4 and H.264
No of camera inputs	Up to 16 IP and Megapixel camera inputs (number of camera licences can be increased from 4 to 9 or 16 quickly and easily)
Operating System	Embedded Linux platform
Cameras supported	Acti, Arecont, Axis, Basler, Bosch, IQEye, JVC, LiLin, Lumenera, Messoa, Mobotix, Panasonic, Pelco, Samsung, Sanyo, Sony (see web site for latest listing)
Camera set-up	Fast camera set up with drop down menus and easy to use set up routines (includes direct access to the camera web browser set-up)
Recording formats	Prime, Time Lapse and Alarm (assignable to different storage drives)
Network Bandwidth	High speed Gigabit LAN
Network support	NAS & SAN recording via high speed iSCSI interface
NAS storage volume	Up to 64 Terabytes of network storage
Camera network	Seamlessly scalable using multiple recorders to support hundreds of video inputs
Multiple servers	Seamless multi-server view of all cameras in a network
Motion Detection	Intelligent configurable video motion detection support
PTZ Support	PTZ for analogue & IP cameras supported (see web site for status)
Operating conditions	5 to 40°C (40 to 104°F). Humidity 20 to 40% RH (non-condensing)
Diagnostics	Remote, secure diagnostics and repair functionality (subject to the availability to the network for remote access)
Low power	Typical 60 Watts power consumption (external AC-DC converter included)
Remote software	5 user licenses of the Windows PC client software included as standard (Additional user licences available)
Systems interface	Flexible SDK for third-party integration or customisation

(Note 1) Analogue cameras supported when used with a video encoder

Client (Remote control) specifications

User Interface	Powerful & easy to use Graphical User Interface (GUI)
Platforms	Operates on a Windows (XP, Vista and Windows 7) and Ubuntu OS
Functions supported	All parameters available (subject only to user permissions applied)
Playback functions	Live or archive images (Super-fast FIND of images)
Search options	Search by date & time (waterfall), by slider forwards & backwards or by motion detection
Display options	Multiple 1, 4, 9, 13 and 16 way display options for each unique user
Display images	Full screen display for any display option, plus digital zoom
Digital PTZ	Full 3 axis control using a wheeled mouse or joystick
Export video	Single or multiple image clips can be exported to CD or DVD or USB
Time synchronisation	Date and time embedded on all images; it can be synchronised with an external NTP source
Languages supported	English, German, French, Spanish, Portuguese, Hungarian, Italian, Russian, Turkish & Japanese
Viewing options	Simultaneous multiple languages supported on different screens

Product Designator		Example R08M1-2000-H04-GOLD			
R	08	M1	2000	H04	GOLD
PRODUCT FAMILY DESIGNATOR	NUMBER OF ANALOGUE INPUTS	ANALOGUE COMPRESSION CARD & QTY	STORAGE CAPACITY (GB)	NUMBER OF IP INPUTS	SYSTEM COLOUR
Options are:	Options are:	Options are:	Options are:	Options are:	Options are:
O = Opal	4	M = Wavelet Compression 100fps global	500	4	SILVER
L = Little	8		1000	8	GOLD
T = Topaz	16	H = Wavelet Compression 200fps global	1500	16	PLATINUM
C = Crystal	24		2000	32	
P = Pearl	32	V = H.264 Compression 25fps all inputs	2500	64	
R = Rock			3000		
G = Granite			Refer to datasheet for maximum resolution		

Refer to product datasheets for detailed features and configurations.

Dimensions (D x W x H)
280mm x 307mm x 65mm
(10.75 x 12.1 x 2.6 inches)

Shipping size
365mm x 410 x 155
(14.4 x 16 x 6 inches)

Gross weight (boxed)
4kg (8.8 lbs)

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